Salinity and Sustainability in the San Joaquin Valley

Sarge Green, Manager
Westside Resource Conservation
District

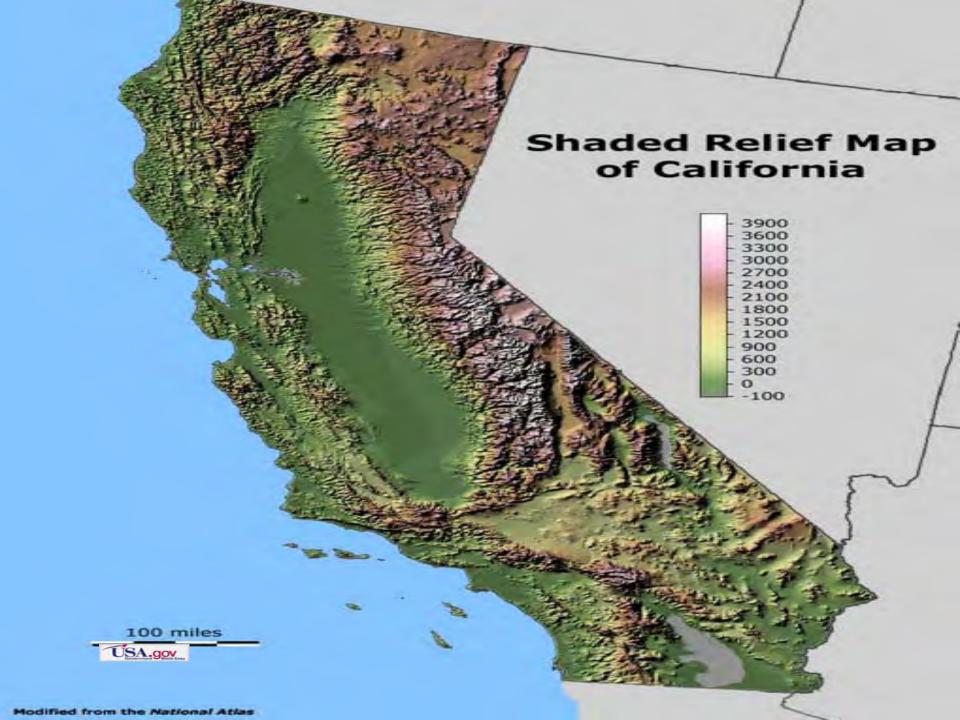
Salinization of California Groundwater

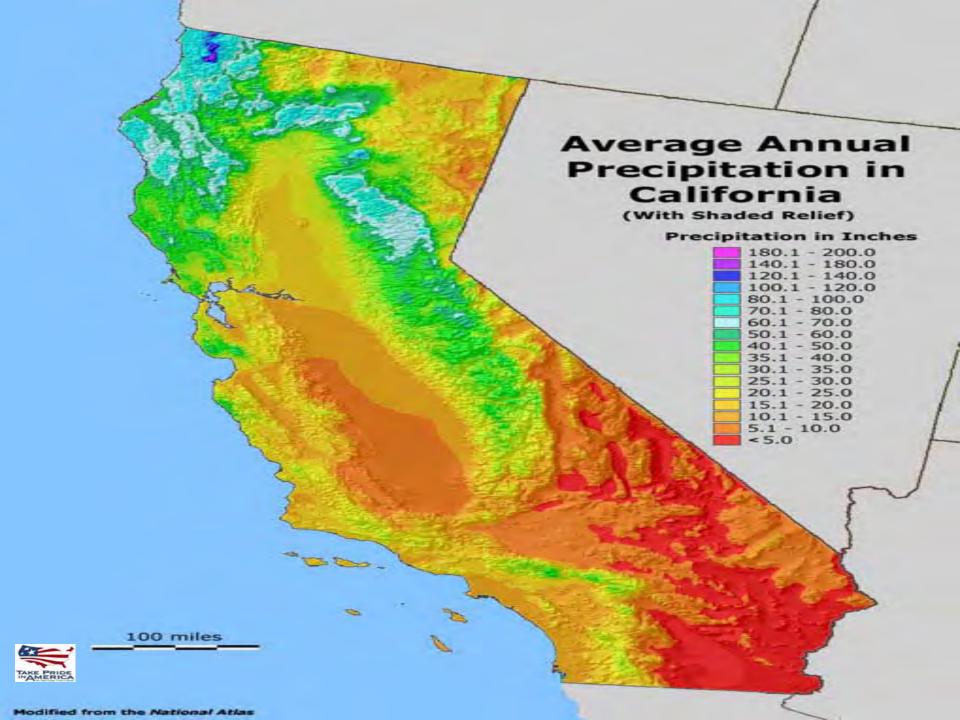
Sources:

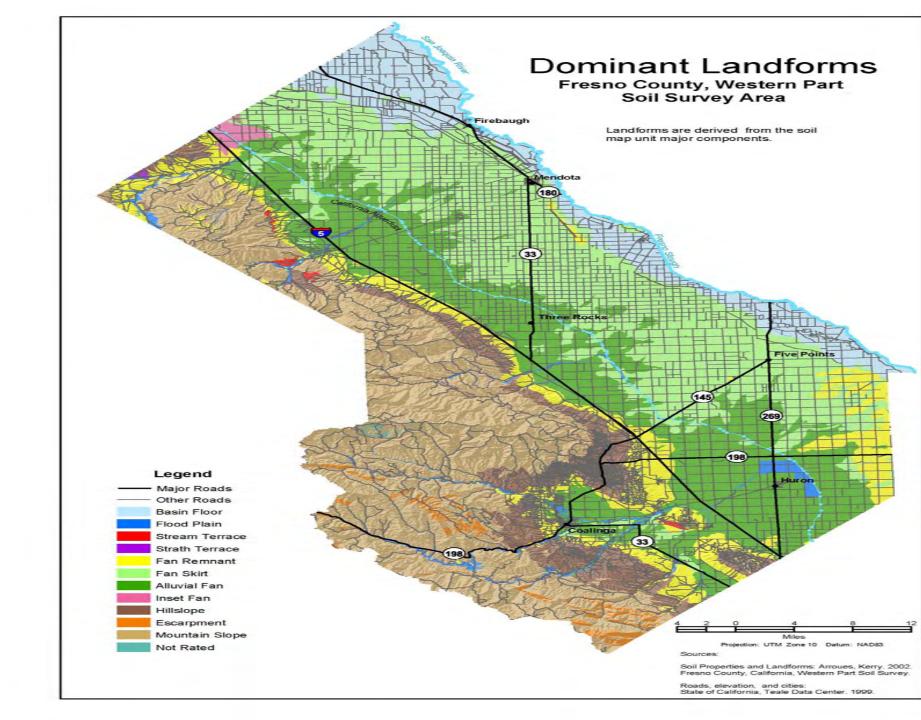
- 1. Weathering of igneous, metamorphic and sedimentary rock parent materials = soluble minerals.
- 2. Evaporation-transpiration.
- 3. Quality of surface water supplies.

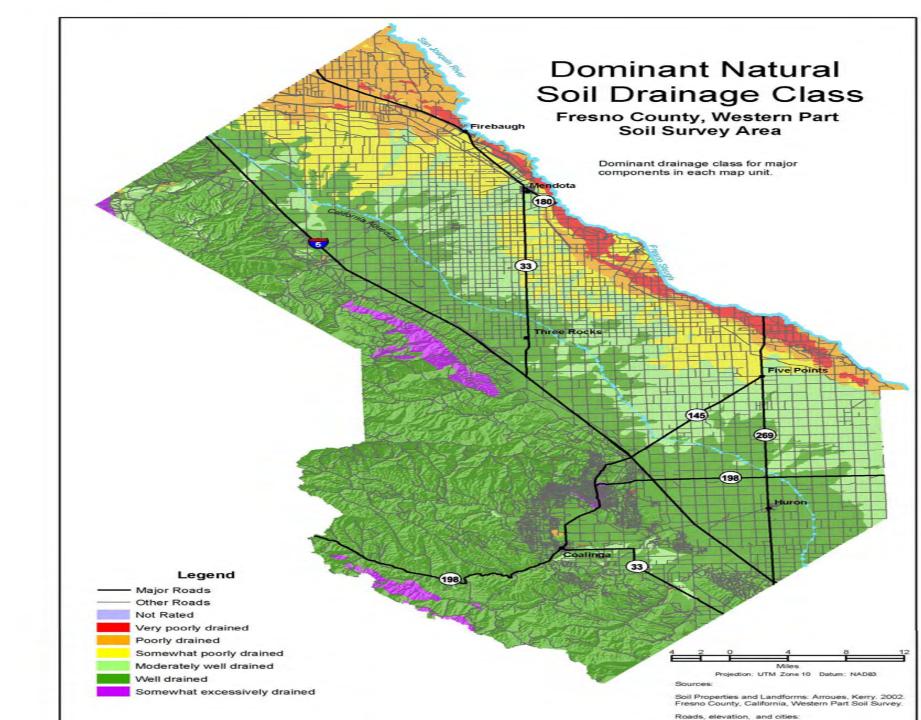
Locations in California

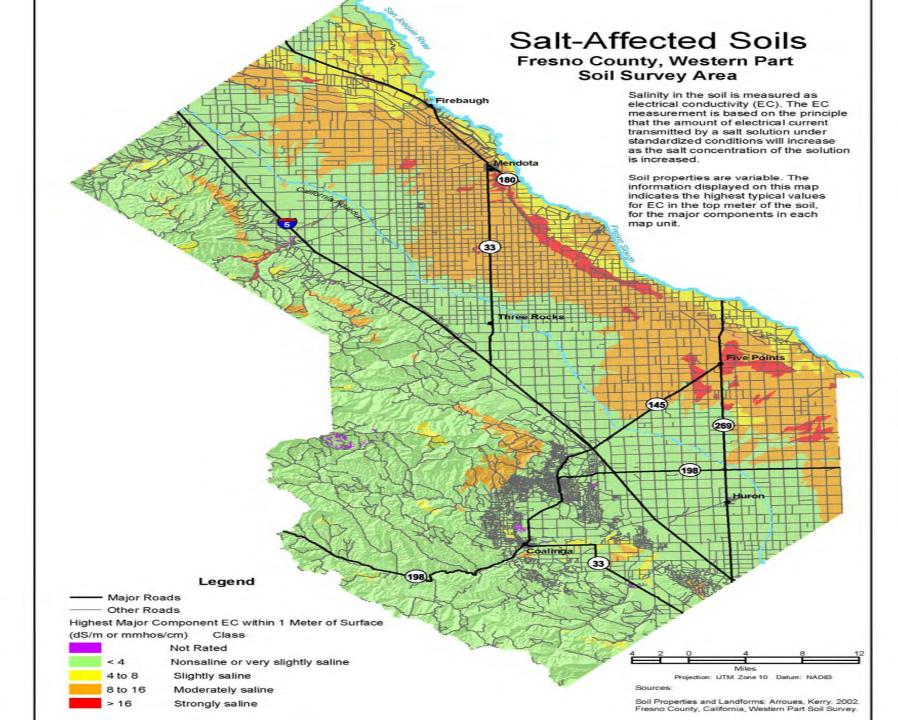
- Imperial Valley/Salton sea
- Tulare basin
- Lower San Joaquin river/delta estuary
- Santa Ana river basin
- Various inland GW basins
- Coastal seawater or brackish water intrusion; Bay Area, Salinas River, Pajaro River, Santa Clara River, Oxnard Plain, Orange County, others?

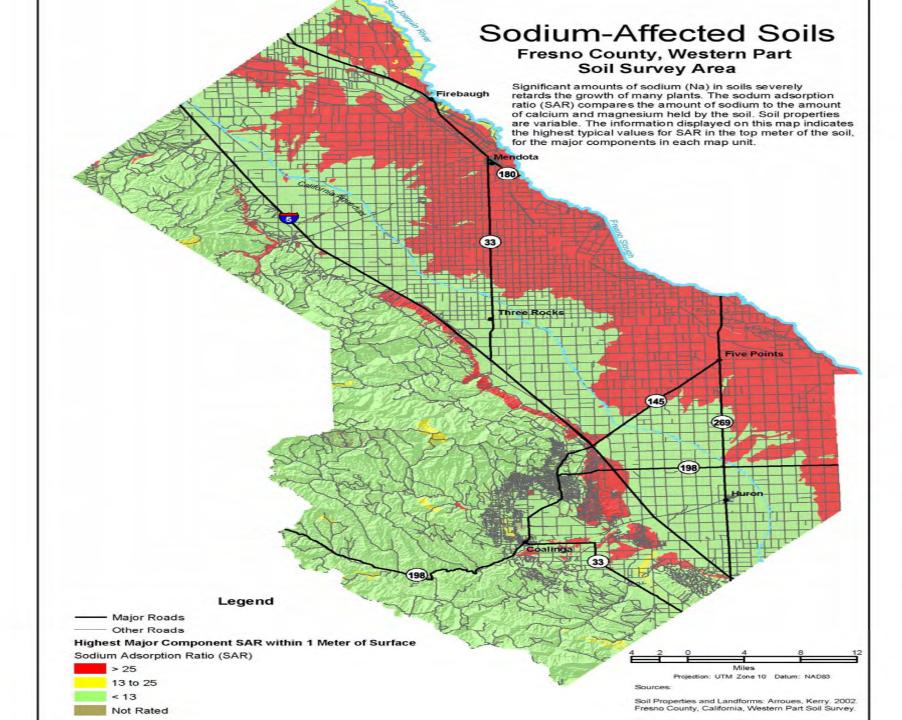












Corcoran Clay – location and importance

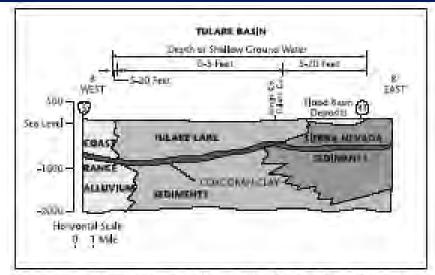


Figure 3: Cross-section diagram of the San Joaquin Valley showing the Corcoran Clay layer in the Tulare Basin. Adapted from: A Management Plan for Agricultural Subsurface Drainage and related Problems on the Westside San Joaquin Valley: September 1990.

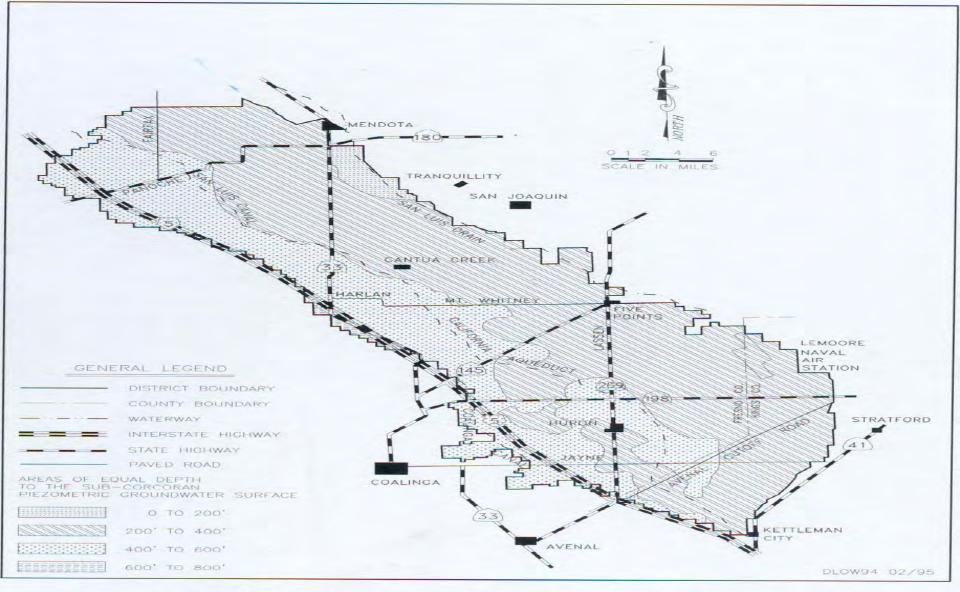


Figure 6. Depth to Sub-Corcoran Piezometric Groundwater Surface, December 1994

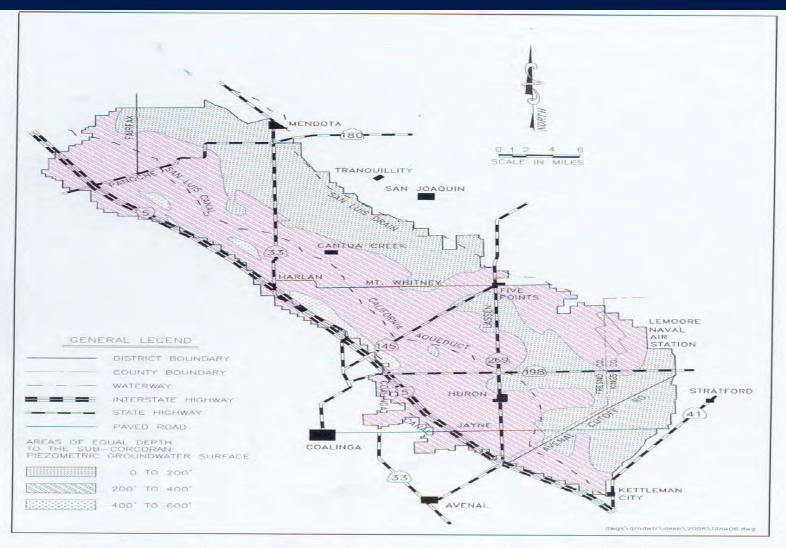


Figure 7. Depth to Sub-Corcoran Piezometric Groundwater Surface December 2006

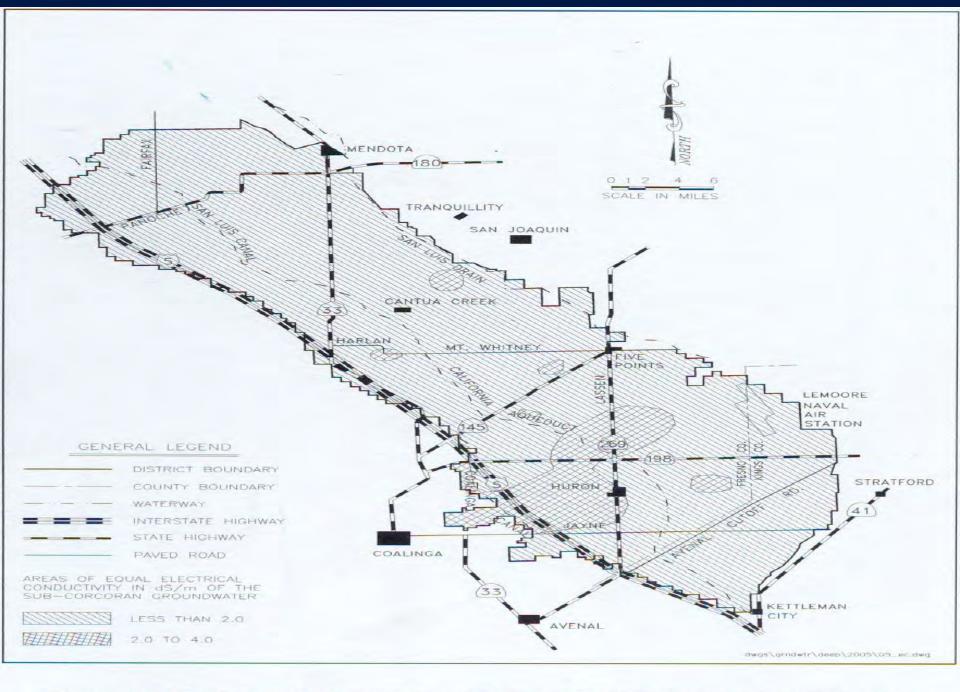
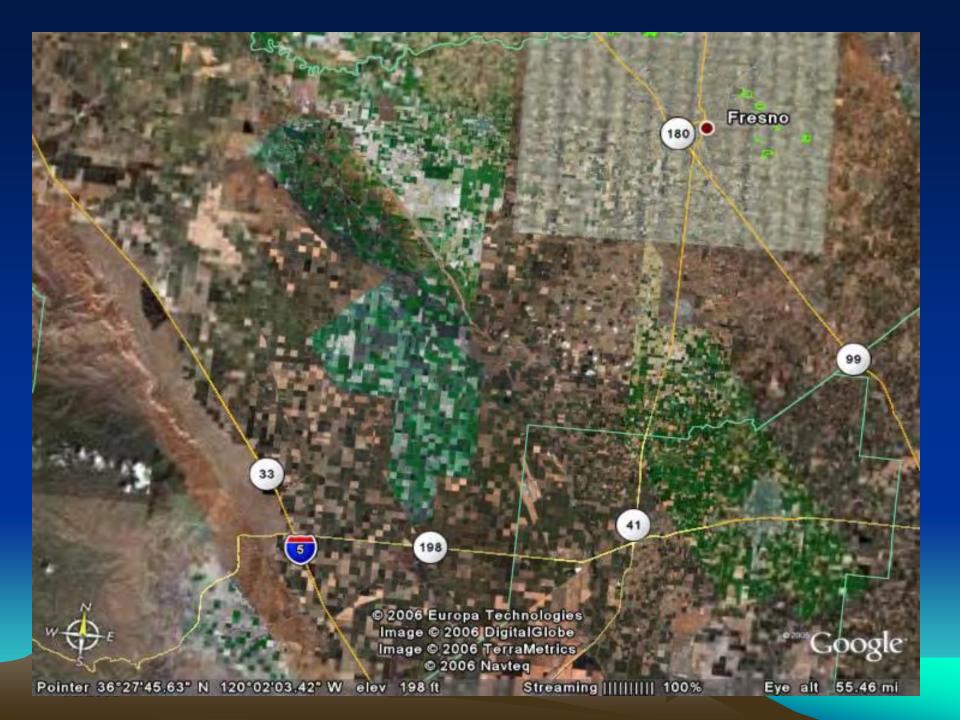


Figure 3. Electrical Conductivity (dS/m) of Sub-Corcoran Groundwater, December 2005

How can it be managed?

 Speakers will discuss some of the current options and techniques as well as the shortcomings of science and policy to attain adequate salt management in California's water.



Solar Evaporator



San Luis Drainage Feature Re-evaluation · Public Hearings

Comment Card



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Comments must be received by close of business on Monday, August 1, 2005:

RESPONSE TO COMMENT I-22

I-22-1

Comment noted. No response necessary.

REFERENCES

- Western Fresno County Soil Survey USDA-NRCS Kerry Arroues, Hanford, CA
- Westlands Land Purchase Program –
 Westland Water District web page
- IFDM for Farm Operators CSUF-CIT web page.
- Sarge Green = sgreen@csufresno.edu